

**ABSTRACT OF THE DISCLOSURE**

To reduce temperature rising of an electric connection box caused by high-current circuits, a separable structured electric connection box 1 includes at least two separated connection boxes 2, 3 having respectively a narrow width portion 8 or 10 and a wide width portion 9 or 11. The narrow width portion of one separated connection box and the wide width portion of the other separated connection box are combined. High-current bus bars 6, 7 are wired respectively at each outside wall 4 or 5 of separated connection boxes 2, 3. High-current fusible link mount portions 12, 13 are disposed along the high-current bus bar at the diagonally opposite narrow width portion of each separated connection box.